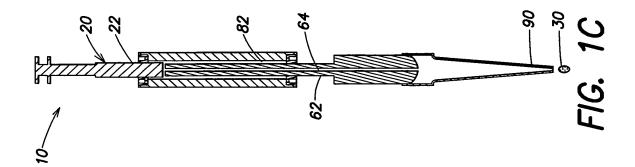
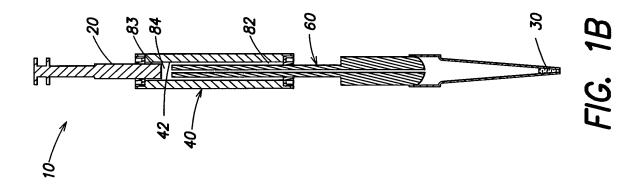
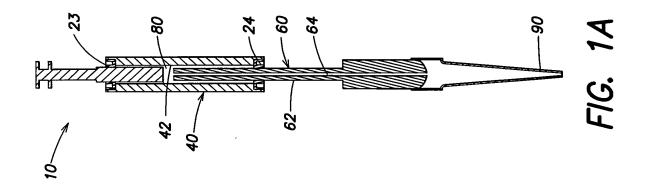
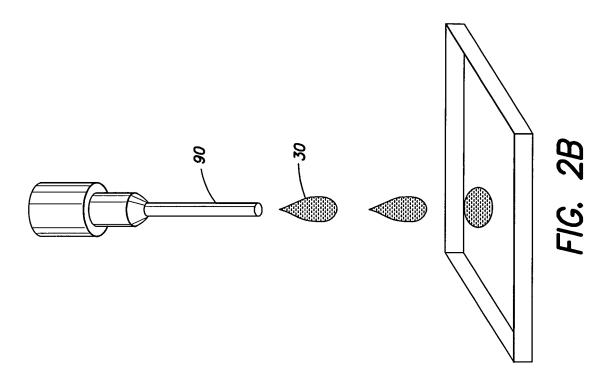


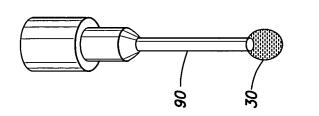
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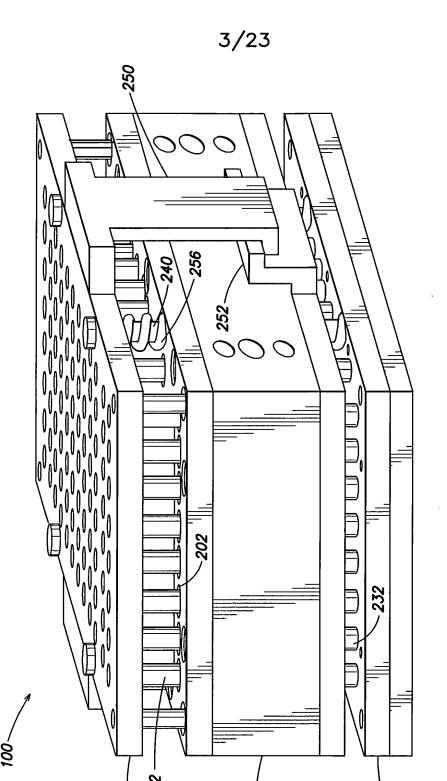






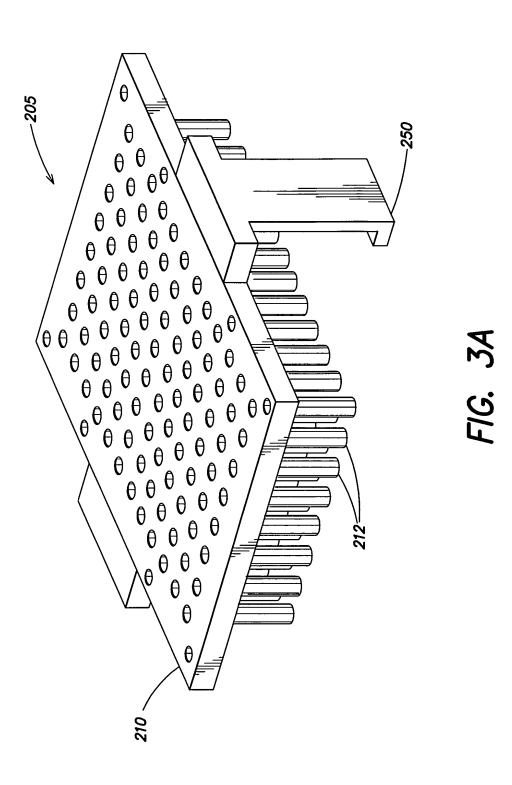


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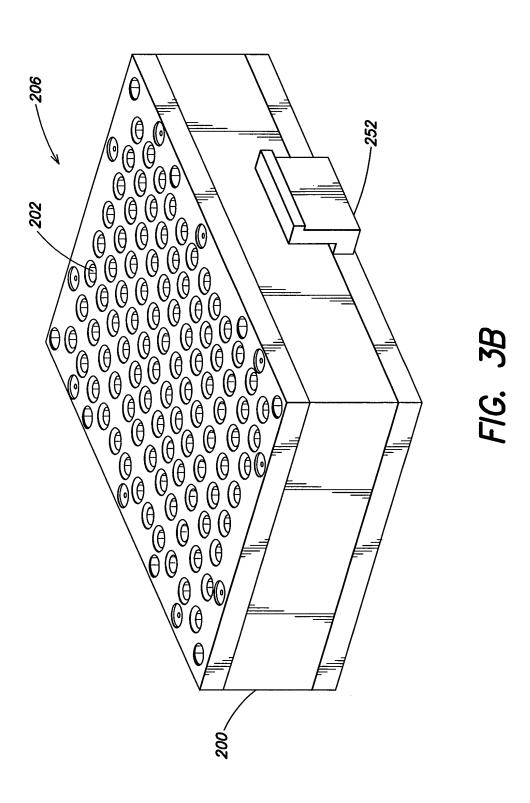


F1G. 3

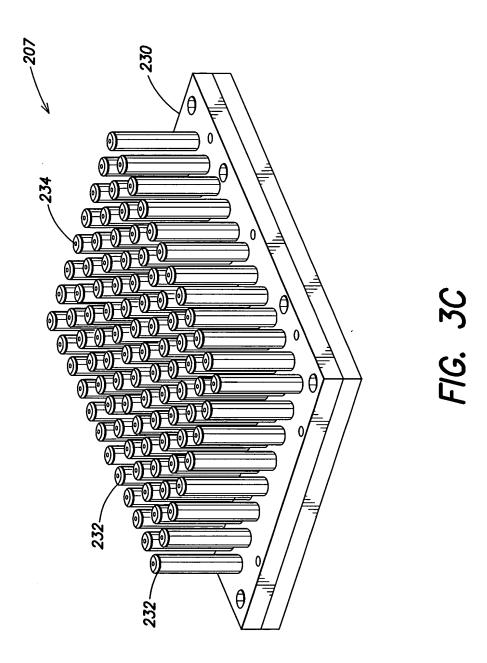
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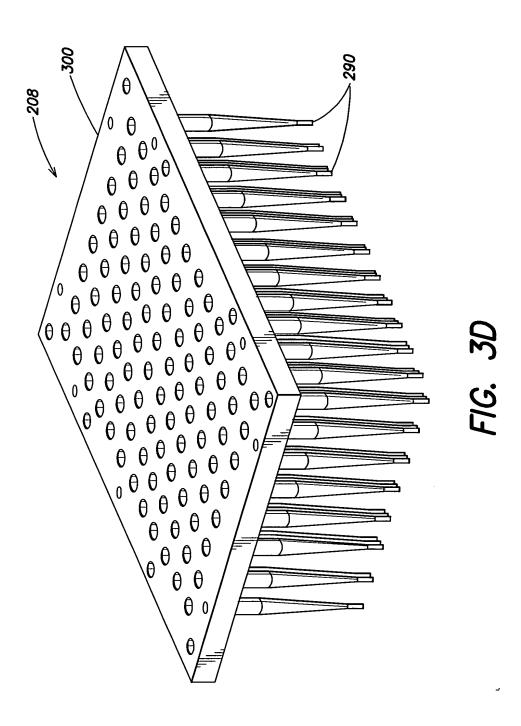
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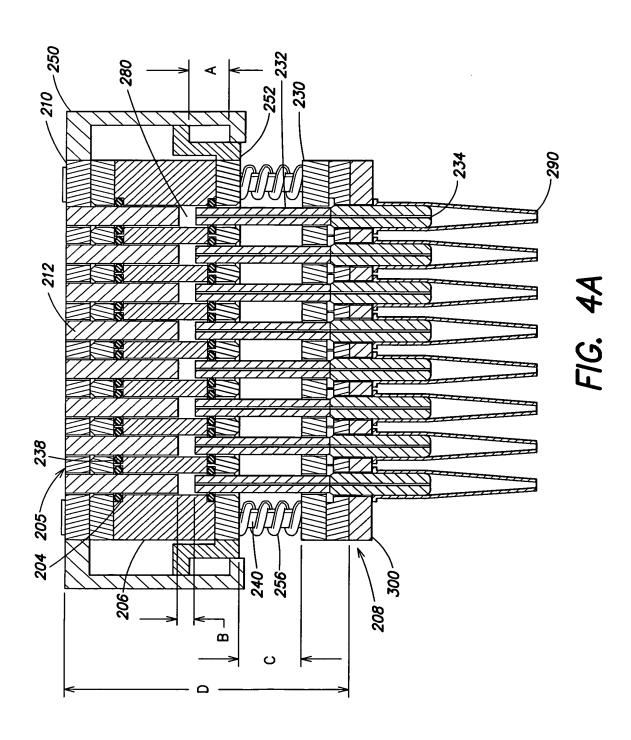


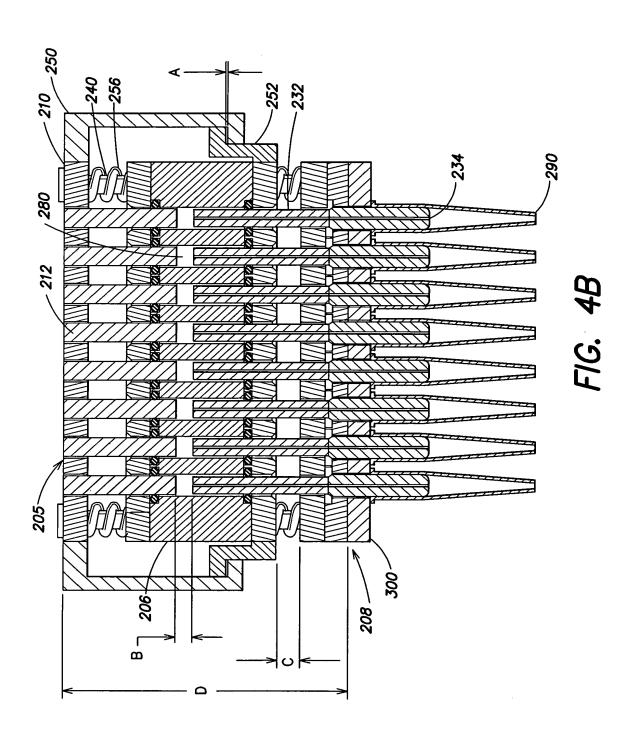
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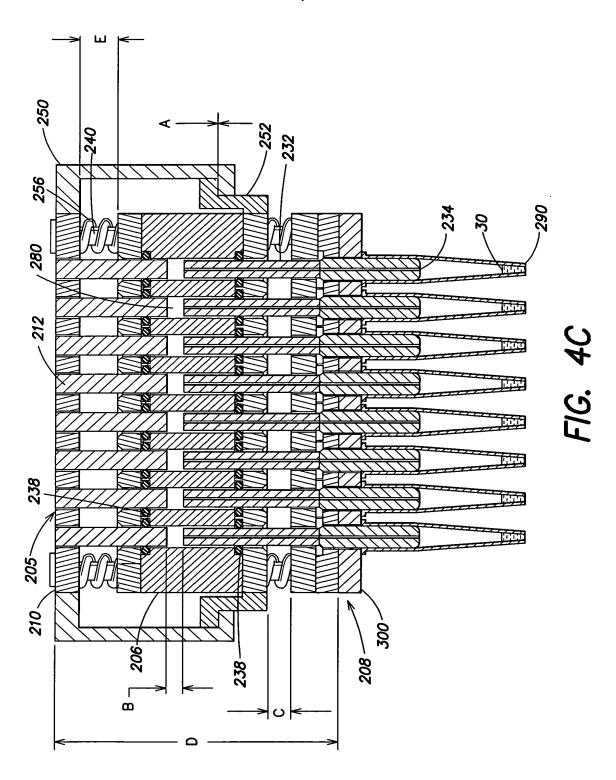


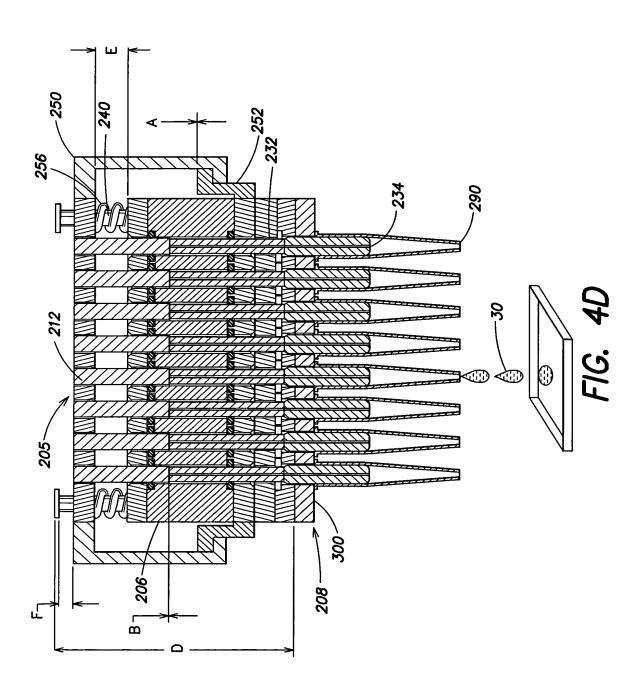
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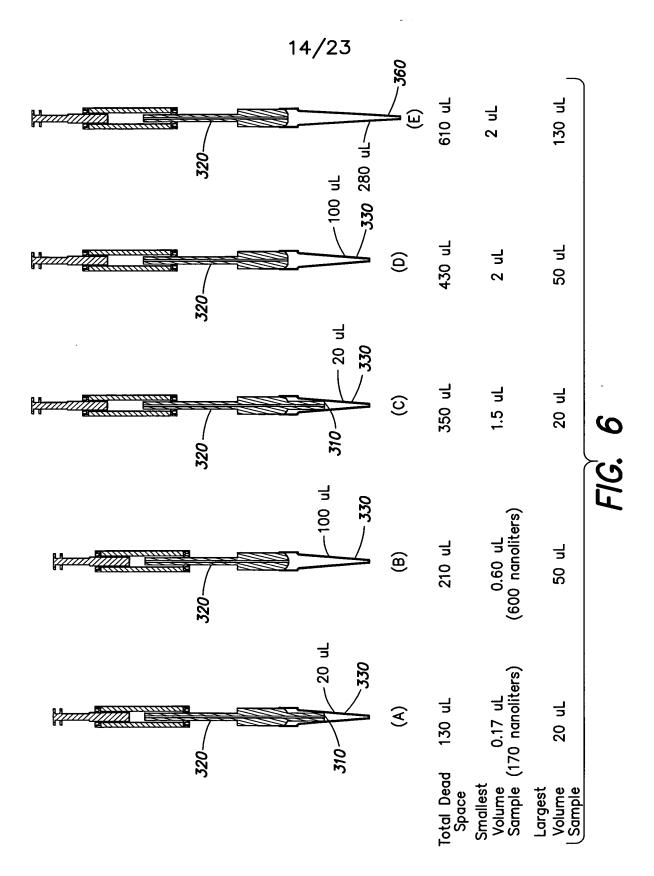
		•		
Velocity nches) 0.010	0.4	1 .5		(8) Blastoff
Escape rs/sec) eters (i 0.012	0.29	1.0		
n Tip (mete diam 0.016	0.16	9.0		Hanging Drop
Maximum Tip Escape Velocity (meters/sec) for tip diameters (inches) 0.020 0.016 0.012 0.010	0.10	4.0		Han
Flow Max (uL/sec)	20	69		
Res (mm/ uL)	6 .	0.51		
Res (uL/ inch)	4	20		
Cross Sectional Area (Square Inches)	0.0009	0.003		
Diameter (Inches)	0.033	0.062		
ction Hypothetical Fine	Resolution Conventional Pipetter	Conventional Pipetter		
Cross Section			<u></u>	

FIG. 5A

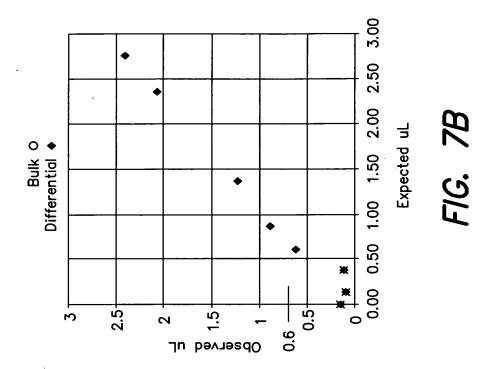
	·			
Maximum Tip Escape Velocity (meters/sec) for tip diameters (inches) 0.020 0.016 0.012 0.010	9 @	13	0.41	₩
	4 ®	თ	0.29	®
	2.3	ις	0.16	®
	4	ю	0.10	®
Flow Max (uL/sec)	282	635	20	
Res (mm/ uL)	0.13	0.062	 æ	5B
Res (uL/ inch)	202	454		FIG. 5B
Cross Sectional Area (Square Inches)	0.0123	0.026	0.0009	
Diameter (Inches)	0.125	0.184	0.033	
oction]	Conventional Pipetter	PRESENT INVENTION Bulk Mode	Differential Mode (fine resolution)	
Cross Section				

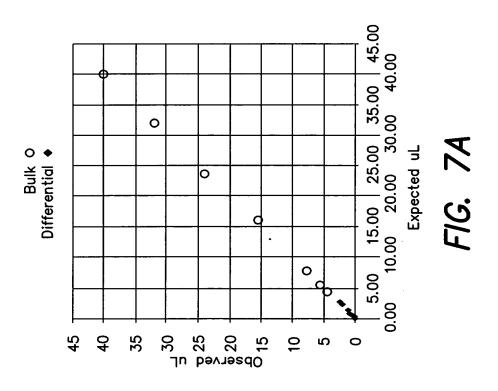
Replacement Sheet
PIPETTING MODULE
H. Donald Schwartz

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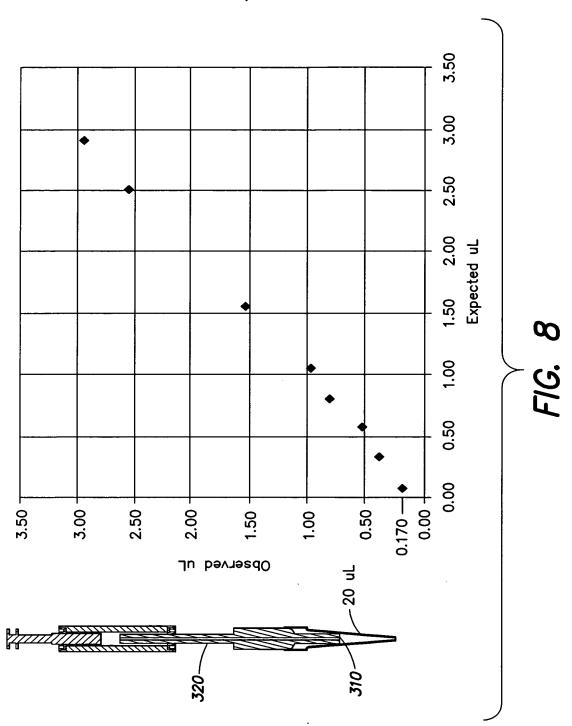


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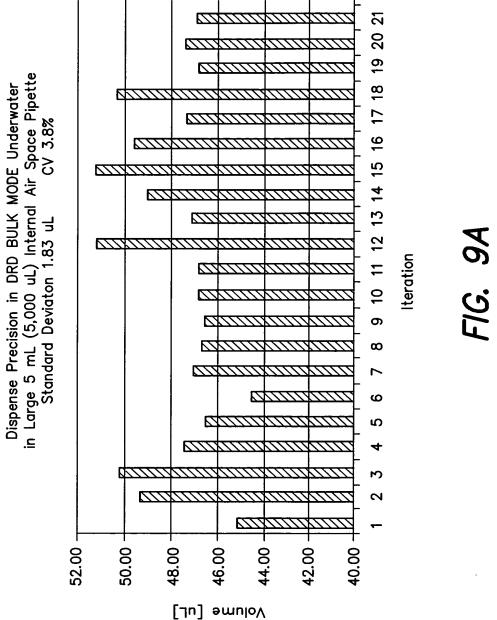




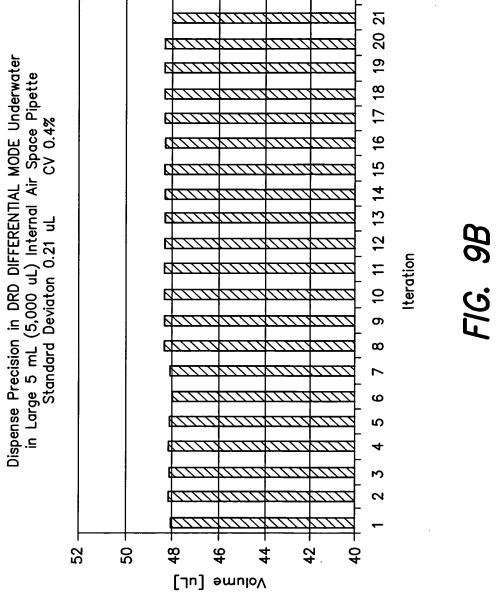
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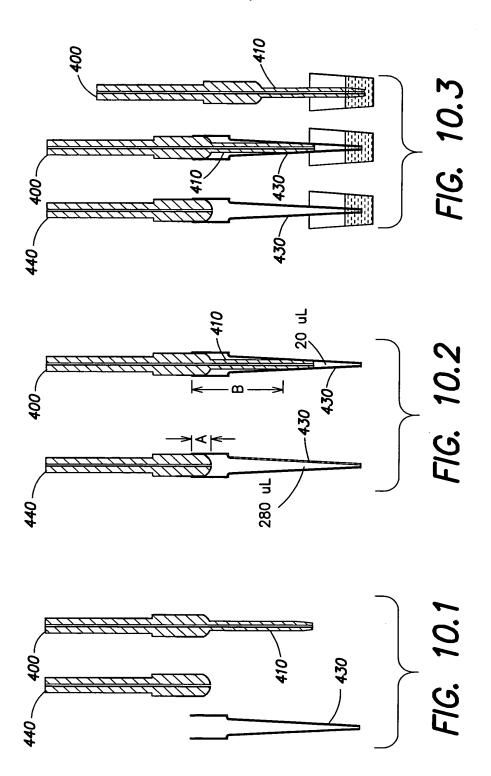
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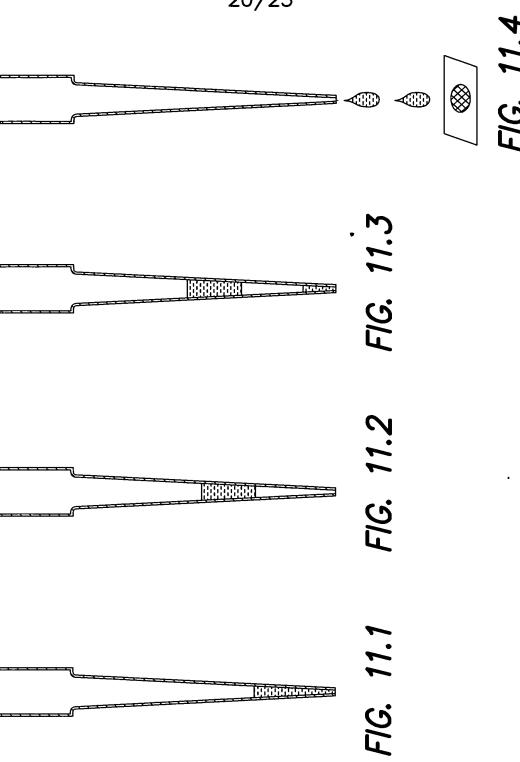
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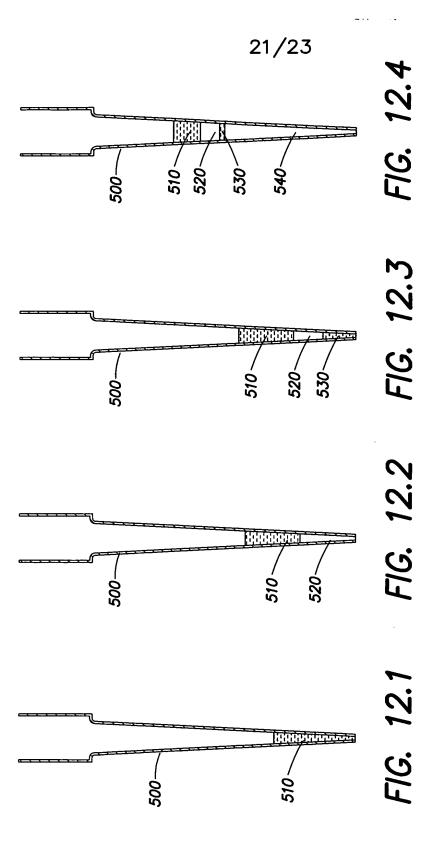
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